

Title (en)

PAPER SHEET DETECTION DEVICE, PAPER SHEET DETECTION METHOD, AND PAPER SHEET PROCESSING DEVICE

Title (de)

PAPIERBOGENERKENNUNGSVORRICHTUNG, PAPIERBOGENERKENNUNGSVERFAHREN UND
PAPIERBOGENVERARBEITUNGSVORRICHTUNG

Title (fr)

DISPOSITIF DE DÉTECTION DE FEUILLES DE PAPIER, PROCÉDÉ DE DÉTECTION DE FEUILLES DE PAPIER ET DISPOSITIF DE
TRAITEMENT DE FEUILLES DE PAPIER

Publication

EP 3940656 A4 20221221 (EN)

Application

EP 20769574 A 20200311

Priority

- JP 2019047278 A 20190314
- JP 2020010484 W 20200311

Abstract (en)

[origin: EP3940656A1] A paper sheet detection device includes: an optical sensor that includes a light-emitting portion that emits light, and a light-receiving portion that receives the emitted light; a storage portion that stores a first threshold value used for determining whether or not a paper sheet is present in a path of the emitted light, a target light-receiving level set as a target value of a level of the light received by the light-receiving portion in a state where the paper sheet is not present, and a second threshold value that is set to a value that is greater than the first threshold value and less than the target light-receiving level; an estimating portion that determines whether the level of the light received by the light-receiving portion is equal to or greater than the first threshold value and less than the second threshold value, and that estimates whether or not the paper sheet is present; and a light amount adjusting portion that adjusts an amount of the light emitted by the light-emitting portion so that the level of the light received by the light-receiving portion becomes the target light-receiving level in the state where the paper sheet is not present when the estimating portion estimates that the paper sheet is not present after the estimating portion determines that the level of the light received by the light-receiving portion is equal to or greater than the first threshold value and less than the second threshold value.

IPC 8 full level

G07D 7/00 (2016.01); **B65H 7/14** (2006.01); **G01V 8/12** (2006.01); **G07D 7/12** (2016.01); **G07D 7/121** (2016.01)

CPC (source: EP US)

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Citation (search report)

- [I] JP 2018144989 A 20180920 - GLORY KOGYO KK
- [I] JP 2015138437 A 20150730 - NIPPON ALEPH, et al
- [A] US 2019049375 A1 20190214 - COOK TROY DON [US]
- See also references of WO 2020184608A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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DOCDB simple family (application)

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